

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/713,595	
	Filing Date	November 14, 2004	
	First Named Inventor	Braun et al.	
	Art Unit	2674	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission		Attorney Docket Number	IMM078C (51851/294820)

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> PTO/SB/08a and Supplemental PTO/SB/08a; Return Postcard
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Kilpatrick Stockton LLP		
Signature			
Printed Name	John C. Alemanni		
Date	December 27, 2004	Reg. No.	47,384

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Braun et al.
Ser. No. : 10/713,595
Filing Date : November 14, 200
For: Host Cache for Haptic Feedback Effects
Examiner : Not Yet Assigned
Art Unit : 2674
Atty. Docket : IMM078C

Mail Stop: **AMENDMENT**
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Enclosed is a copy of PTO/SB/08a and Supplemental PTO/SB/08a submitted in the parent application. It is respectfully requested that the references listed on the attached forms PTO/SB/08a be expressly considered by the Examiner, made of record in the application, and appear among the "References Cited" on any patent to issue therefrom. Since the IDS submitted in the parent application complied with 37 CFR 1.98, copies of the patents, publications, pending U.S. applications, and other information have not been resubmitted in this continuing application.

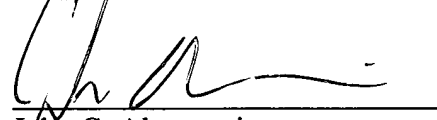
For several of the documents listed in "Other Documents," the date, which is shown on the document, is listed. Applicants make no representation as to the publication date, if any, of the document.

Applicants do not represent or admit that any document listed is prior art or material, and Applicants reserve the right to challenge any assertion that a document listed is prior art or material. Further, Applicants reserve the right to establish patentability over the listed documents.

It is respectfully requested that the references listed on the attached form PTO/SB/08a be expressly considered by the Examiner, made of record in the application, and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement ("IDS") is being submitted prior to the mailing of a first Office Action on the merits in this application. Accordingly, it is believed that no fees are due for consideration of this IDS. However, should any fees be due under 37 C.F.R. §1.16 or §1.17 or otherwise, the Commissioner is hereby authorized to charge these fees and any other additional fees which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

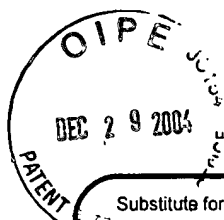
Respectfully submitted,



John C. Alemanni
Registration No. 47,384

Dated: December 27, 2004

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PTO/SB/08B (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	BRAUN, et al.
Art Unit	2186
Examiner Name	Anderson, Matthew D.
Attorney Docket Number	(IMM 078B) 51851-280457

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6,219,034	4/17/01	Elbing, et al.	

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
	2	JP	H1-3664 (H-2 185278)		7/19/1990	Taito Corporation	✓
	3	JP	H2-109714 (H4-8381)		1/13/1992	Epoch Co. and Key- Planning Co.	✓
	4	JP	H5-193862 (H7-24147)		1/27/1995	Sega Corporation	✓
	5	JP	H4-007371 (H5-192449)		8/3/1993	Taito Corporation	✓

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

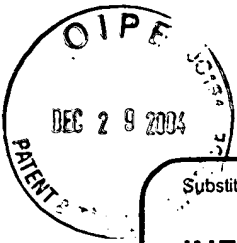
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	6	SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 1 of 5

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Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew D.
Attorney Docket Number	IMM078B

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	3,220,121	11/30/1965	Cutler	
	AB	3,517,446	6/30/1970	Cortyon et al.	
	AC	3,903,614	9/9/1975	Diamond et al.	
	AD	4,236,325	10/2/1980	Hall et al.	
	AE	4,513,235	4/23/1985	Acklam et al.	
	AF	4,599,070	7/8/1986	Hladky et al.	
	AG	4,708,656	11/24/1987	De Vries et al.	
	AH	4,713,007	12/15/1987	Alban	
	AI	4,891,764	1/2/1990	McIntosh	
	AJ	5,019,761	5/28/1991	Kraft	
	AK	5,022,407	6/11/1991	Horch et al.	
	AL	5,240,417	8/31/1993	Smithson et al.	
	AM	5,271,290	12/21/1993	Fischer	
	AN	5,275,174	1/4/1994	Cook	
	AO	5,785,630	7/28/1998	Bobick et al.	
	AP	3,157,853	11/17/1964	Hirsch	
	AQ	3,497,668	2/24/1970	Hirsch	
	AR	3,902,687	6/25/1973	Hightower	
	AS	4,160,508	7/10/1979	Salsbury	
	AT	4,581,491	4/8/1986	Boothroyd	
	AU	4,930,770	6/5/1990	Baker	
	AV	4,934,694	6/19/1990	McIntosh	
	AW	5,035,242	7/30/1991	Franklin	
	AX	5,038,089	8/6/1991	Szakaly	
	AY	5,078,152	1/7/1992	Bond	
	AZ	5,299,810	4/5/1994	Pierce	
	BA	5,309,140	5/3/1994	Everett	
	BB	5,334,027	8/2/1994	Wherlock	
	BC	5,547,382	8/20/1996	Yamasaki	
	BD	5,212,473	5/18/1993	Louis	
	BE	5,466,213	11/14/1995	Hogan	
	BF	5,766,016	6/16/1998	Sinclair	
	BG	5,186,685	2/16/1993	Mangseth et al.	
	BH	6,422,941	7/23/2002	Thomer et al.	
	BI	6,111,577	8/29/2000	Zilles et al.	

Examiner
Signature

Date
Considered

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¹ Applicant's unique citation designation number (optional). ² Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 5

Complete if Known

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew D.
Attorney Docket Number	IMM078B

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
	BJ	EP	EP0349086		1/31/1990	Visser	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

3

of

5

Complete if Known

Application Number

10/060,472

Filing Date

January 29, 2002

First Named Inventor

Adam C. Braun, et al.

Group Art Unit

2186

Examiner Name

Anderson, Matthew D.

Attorney Docket Number

IMM078B

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	BK	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.
	BL	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993.
	BM	RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990.
	BN	BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985.
	BO	JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990.
	BP	BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993.
	BQ	SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control no. MPO-17851; JPL Case No. 5348, pp. 1-4, 06/15/1989.
	BR	OUH-YOUNG, "Force Display in Molecular Docking," Order No. 9034744, p. 1-369, 1990.
	BS	TADROS, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators, MIT Archive@ Massachusetts Institute of Technology, pp. 1-88, February 1990.
	BT	CALDWELL et al., "Enhanced Tactile Feedback (Tele-Traction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993.
	BU	ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992.
	BV	GOTOW et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337
	BW	STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSV-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992.
	BX	RUSSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992.

Examiner
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 5**Complete if Known**

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew DS.
Attorney Docket Number	IMM078B

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	BY	KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993.
	BZ	PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.
	CA	ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.
	CB	BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.
	CC	BEJCZY, "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM-IFTOMM, Sep. 8-12, 1981.
	CD	MCAFFEE, "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, pp. 1-50, A1-A36, B1-B5, C1-C36, January 1988.
	CE	MINISKY, "Computational Haptics: The Sandpaper System for Synthesizing Textue for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995.
	CF	JACOBSEN et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," Intervention/ROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991.
	CG	SHIMOGA, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30 - Oct. 1, 1992.
	CH	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990.
	CI	TERRY et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire, March 10-11, 1988.
	CJ	HOWE, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992.
	CK	EBERHARDT et al., "OMAR - A Haptic display for speech perception by deaf and def-blind individuals," IEEE Virtual Reality Annual International Symposium, Seattle, WA, Sep. 18-22, 1993.
	CL	RABINOWITZ et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contractor area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987.

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Sheet 5 of 5

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Application Number	10/060,472
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First Named Inventor	Adam C. Braun, et al.
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	CM	BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.	
	CN	BEJCZY et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989.	
	CO	OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995.	
	CP	MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994.	
	CQ	BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987.	
	CR	AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.	
	CS	EBERHARDT et al., "Including Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1, ASME 1994.	
	CT	GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.	
	CU	PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.	
	CV	"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994.	
	CW	OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.	
	CX	KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies.	

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